TITLE: PORTABLE COMPUTER MANAGING
POWER CONSUMPTION ACCORDING
TO DISPLAY PART POSITIONS ...
INVENTORS: Yoon-man CHOI
SERIAL NO.: Unassigned
DOCKET NO.: 1572.1161

FIG. 1A
(PRIOR ART)

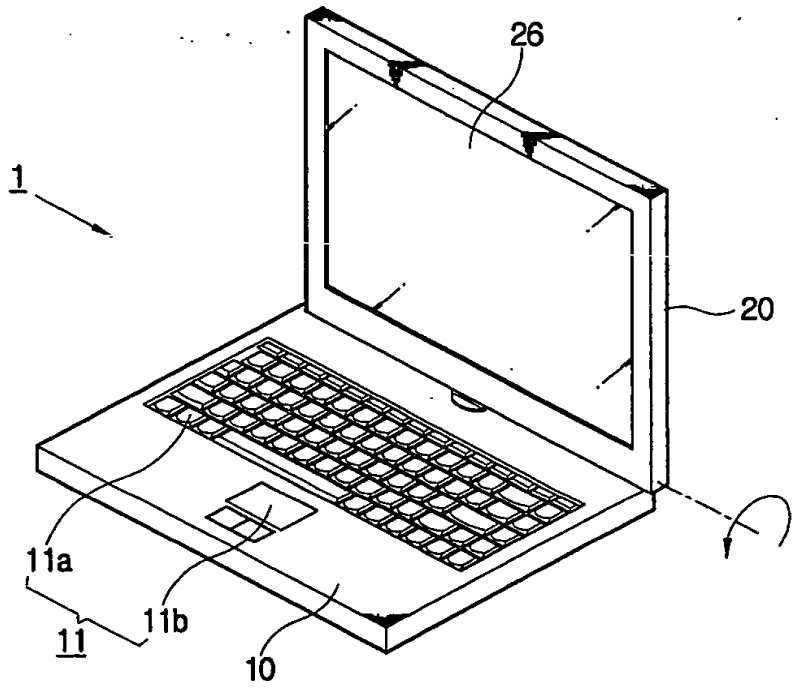

FIG. 1B
(PRIOR ART)

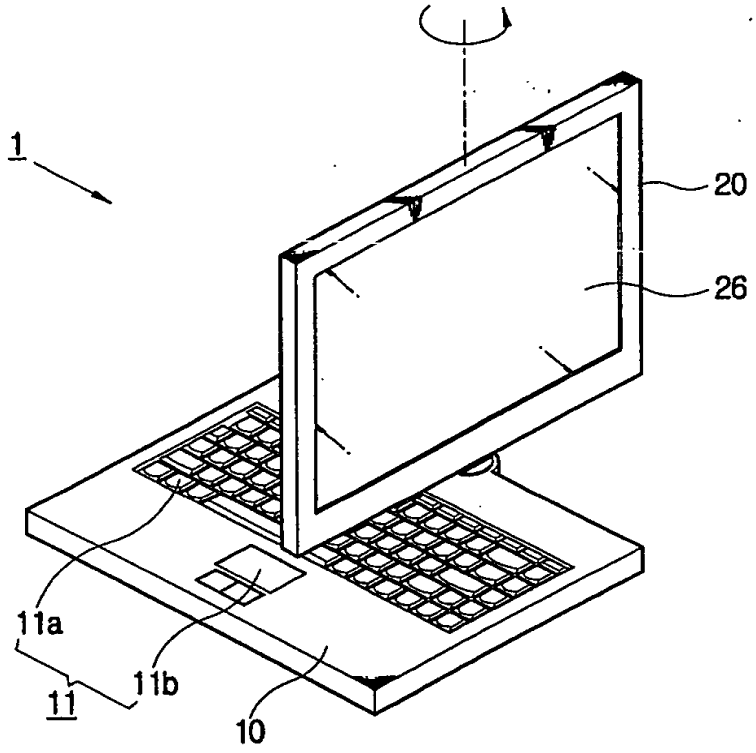

FIG. 1C
(PRIOR ART)

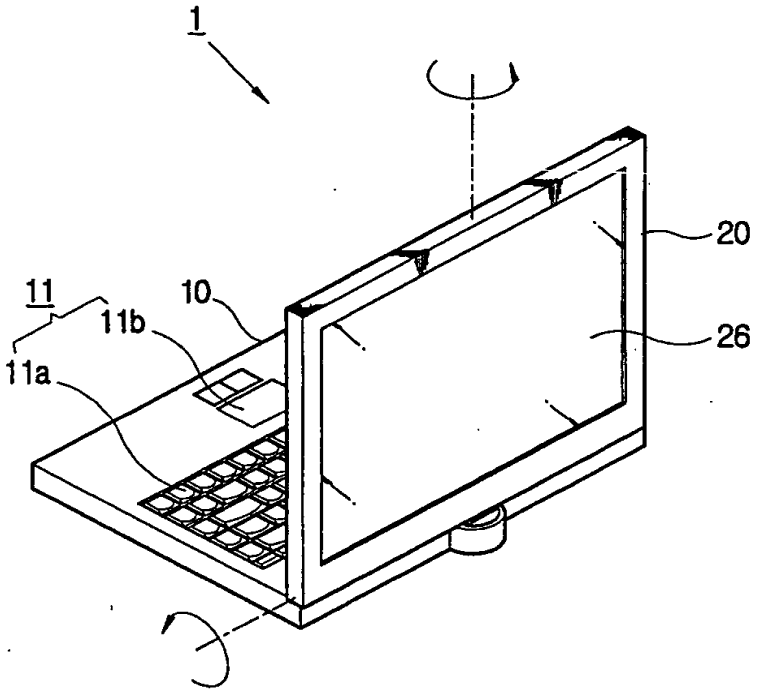

FIG. 1D
(PRIOR ART)

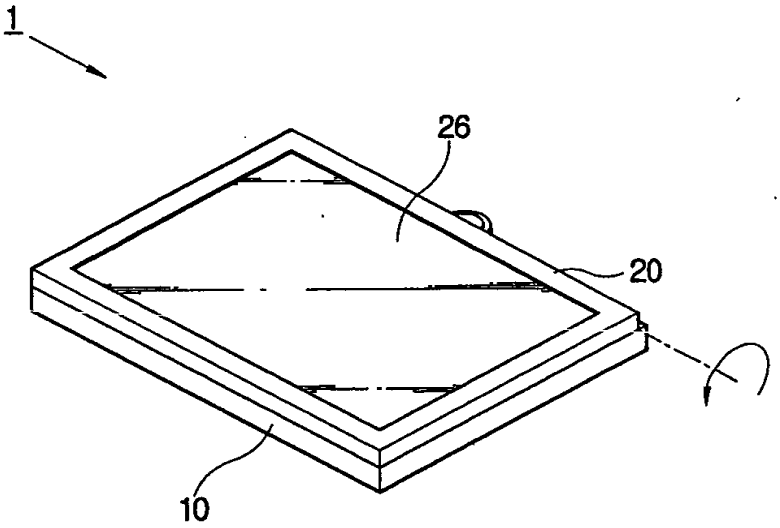

FIG. 2

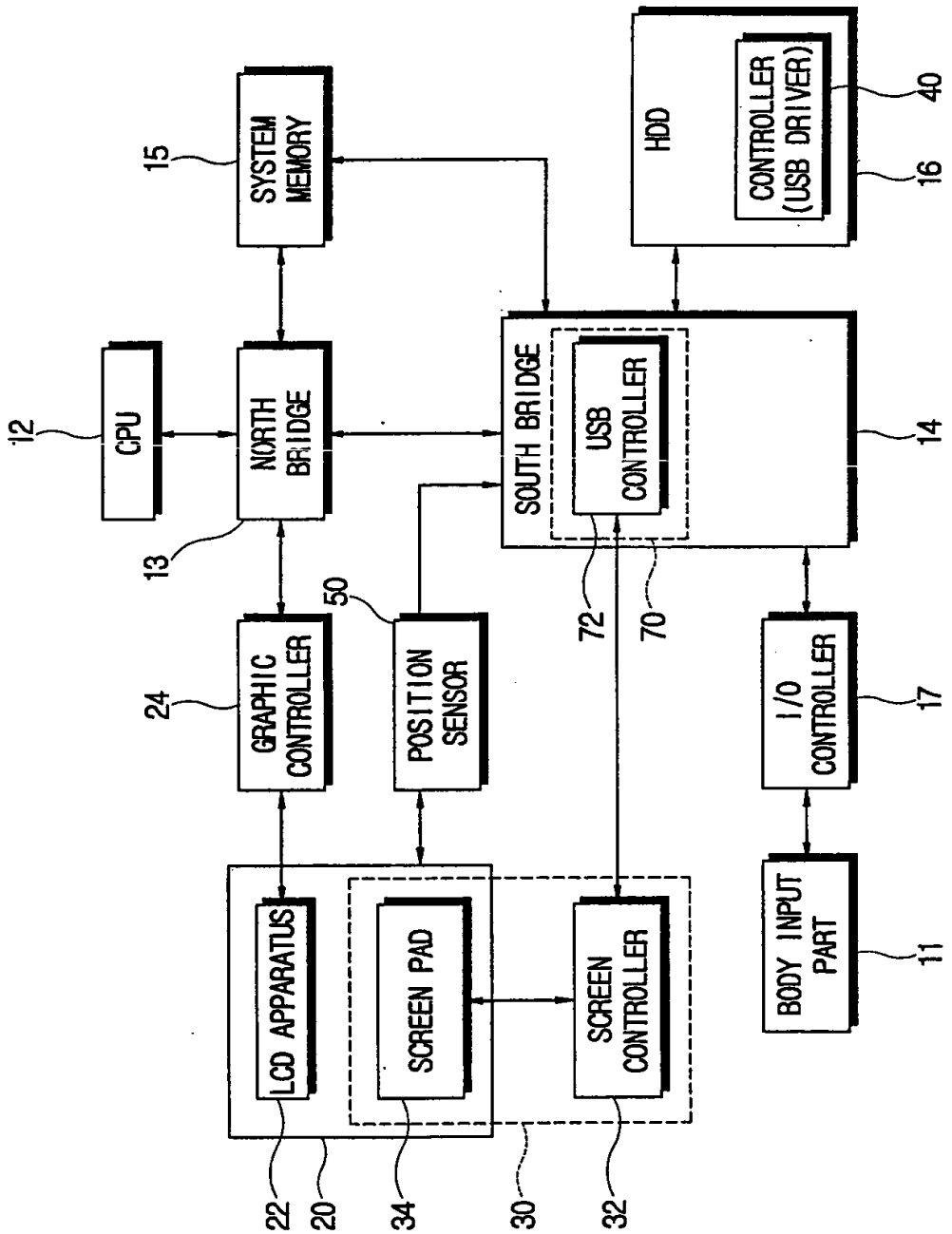
SYSTEM MEMORY
15
HDD
CONTROLLER (USB DRIVER)
40
16
CPU
12
NORTH BRIDGE
13
SOUTH BRIDGE
USB CONTROLLER
14
72
70
GRAPHIC CONTROLLER
24
50
POSITION SENSOR
I/O CONTROLLER
17
LCD APPARATUS
SCREEN PAD
SCREEN CONTROLLER
BODY INPUT PART
11
22
20
34
30
32

FIG. 3

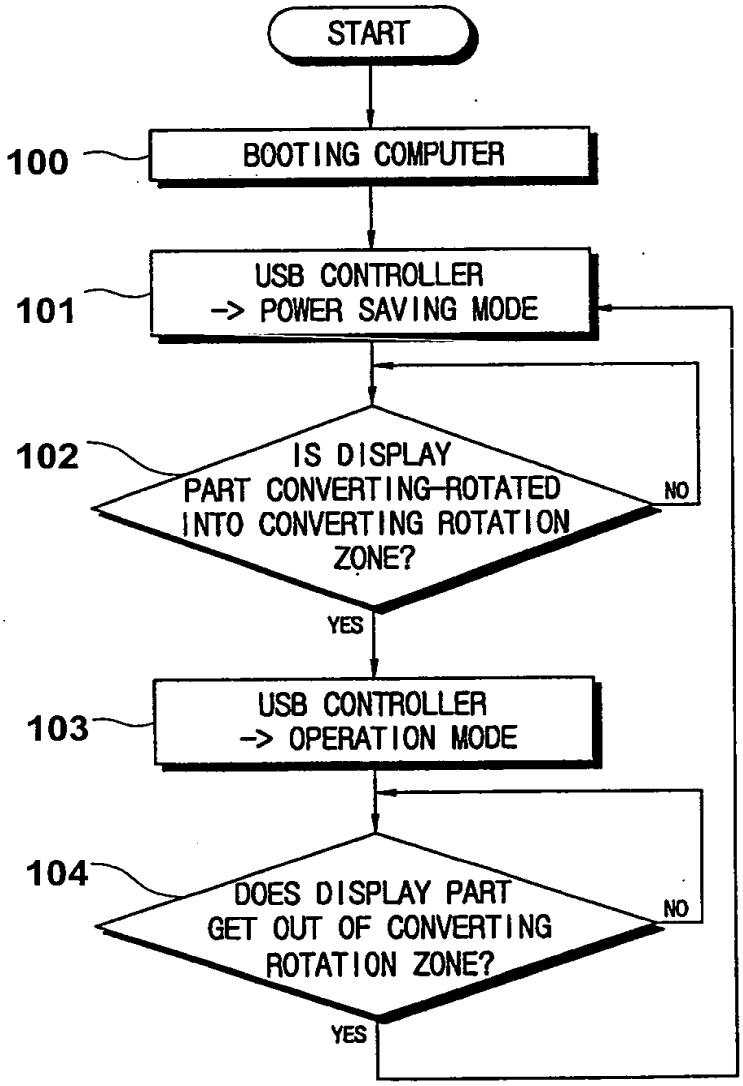
START
100
BOOTING COMPUTER
101
USB CONTROLLER
-> POWER SAVING MODE
102
IS DISPLAY
PART CONVERTING-ROTATED
INTO CONVERTING ROTATION
ZONE?
NO
YES
103
USB CONTROLLER
-> OPERATION MODE
104
DOES DISPLAY PART
GET OUT OF CONVERTING
ROTATION ZONE?
NO
YES

FIG. 4

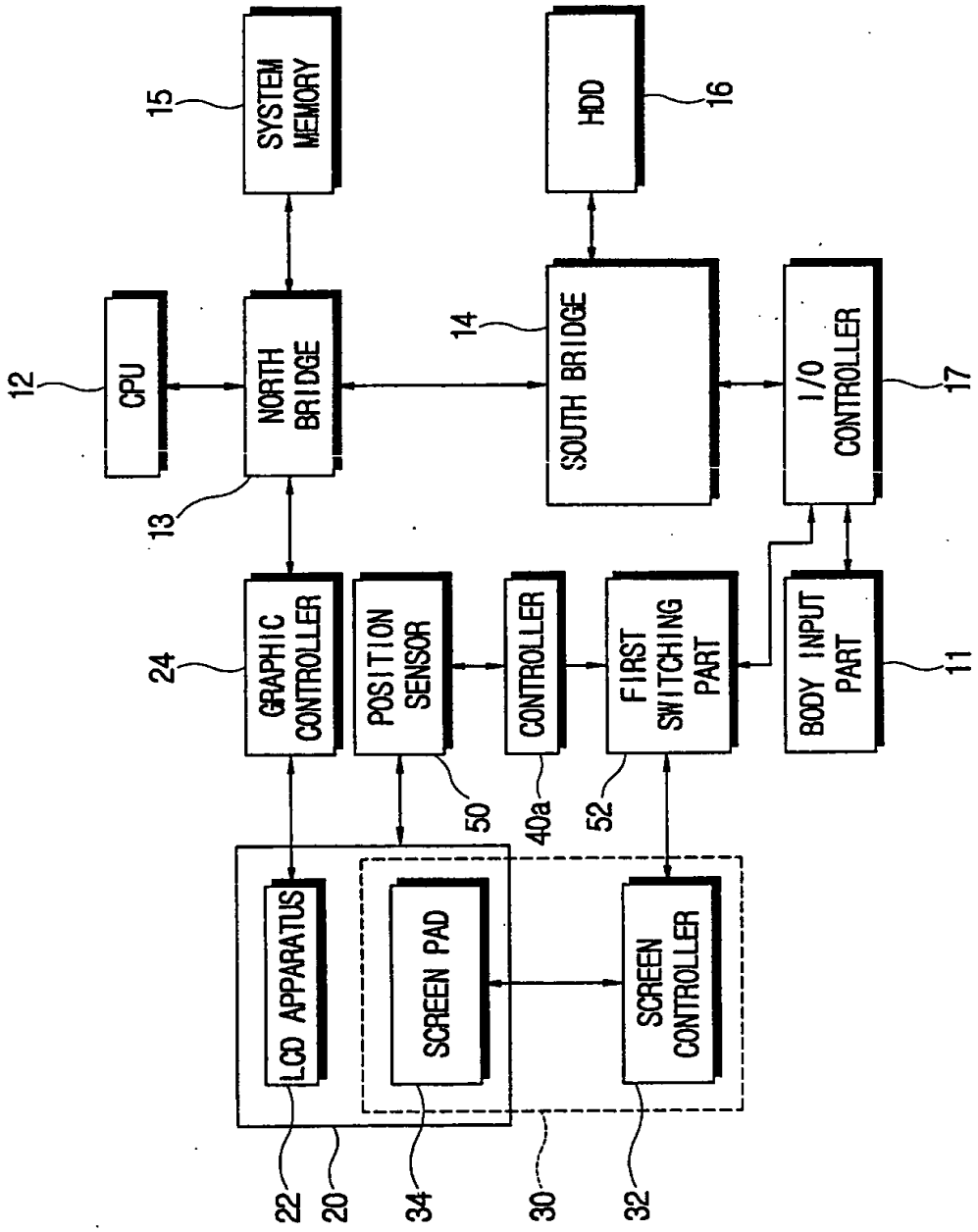
SYSTEM MEMORY
15
HDD
16
CPU
12
NORTH BRIDGE
13
SOUTH BRIDGE
14
I/O CONTROLLER
17
GRAPHIC CONTROLLER
24
POSITION SENSOR
50
CONTROLLER
40a
FIRST SWITCHING PART
52
BODY INPUT PART
11
LCD APPARATUS
22
20
SCREEN PAD
34
30
SCREEN CONTROLLER
32

FIG. 5

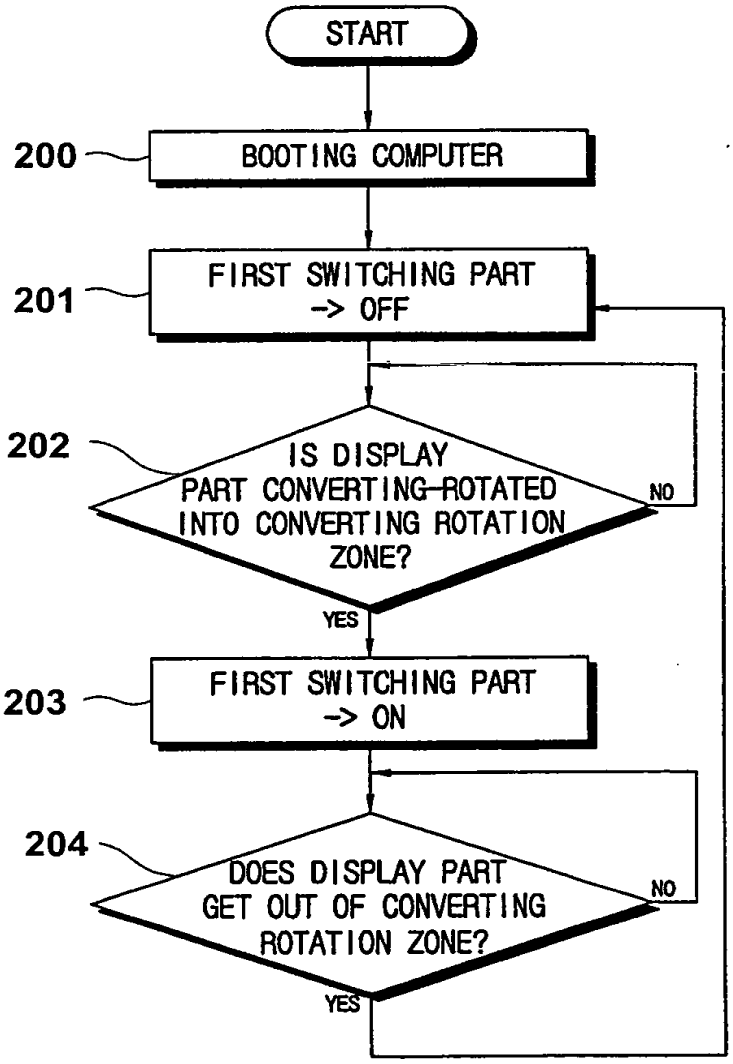
START
200
BOOTING COMPUTER
201
FIRST SWITCHING PART
-> OFF
202
IS DISPLAY
PART CONVERTING-ROTATED
INTO CONVERTING ROTATION
ZONE?
NO
YES
203
FIRST SWITCHING PART
-> ON
204
DOES DISPLAY PART
GET OUT OF CONVERTING
ROTATION ZONE?
NO
YES

FIG. 6

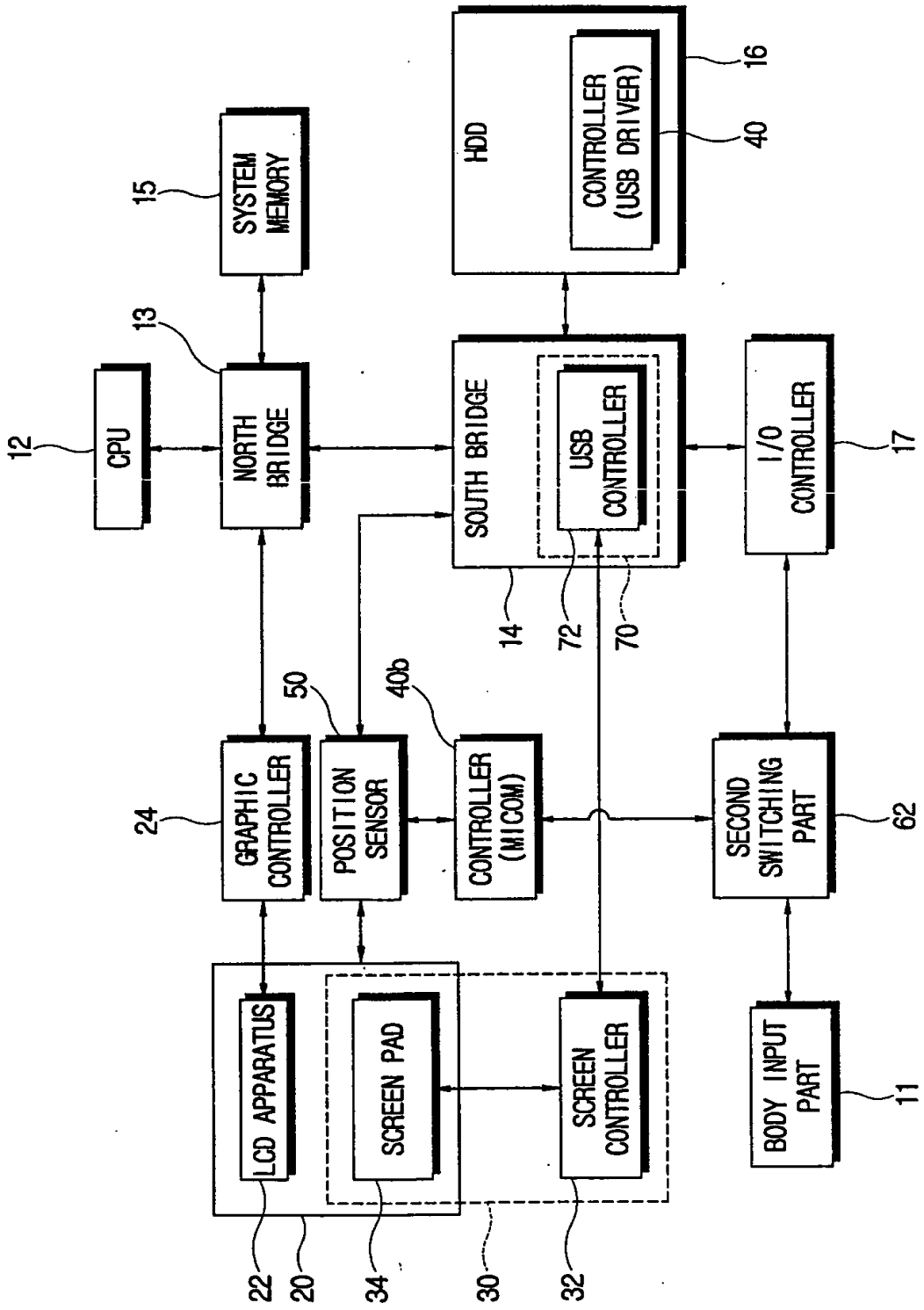
HDD
CONTROLLER (USB DRIVER)
16
40
15
SYSTEM MEMORY
13
12
CPU
NORTH BRIDGE
SOUTH BRIDGE
USB CONTROLLER
I/O CONTROLLER
17
14
72
70
50
40b
24
GRAPHIC CONTROLLER
POSITION SENSOR
CONTROLLER (MICOM)
SECOND SWITCHING PART
62
LCD APPARATUS
SCREEN PAD
SCREEN CONTROLLER
BODY INPUT PART
11
22
20
34
30
32

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FIG. 7

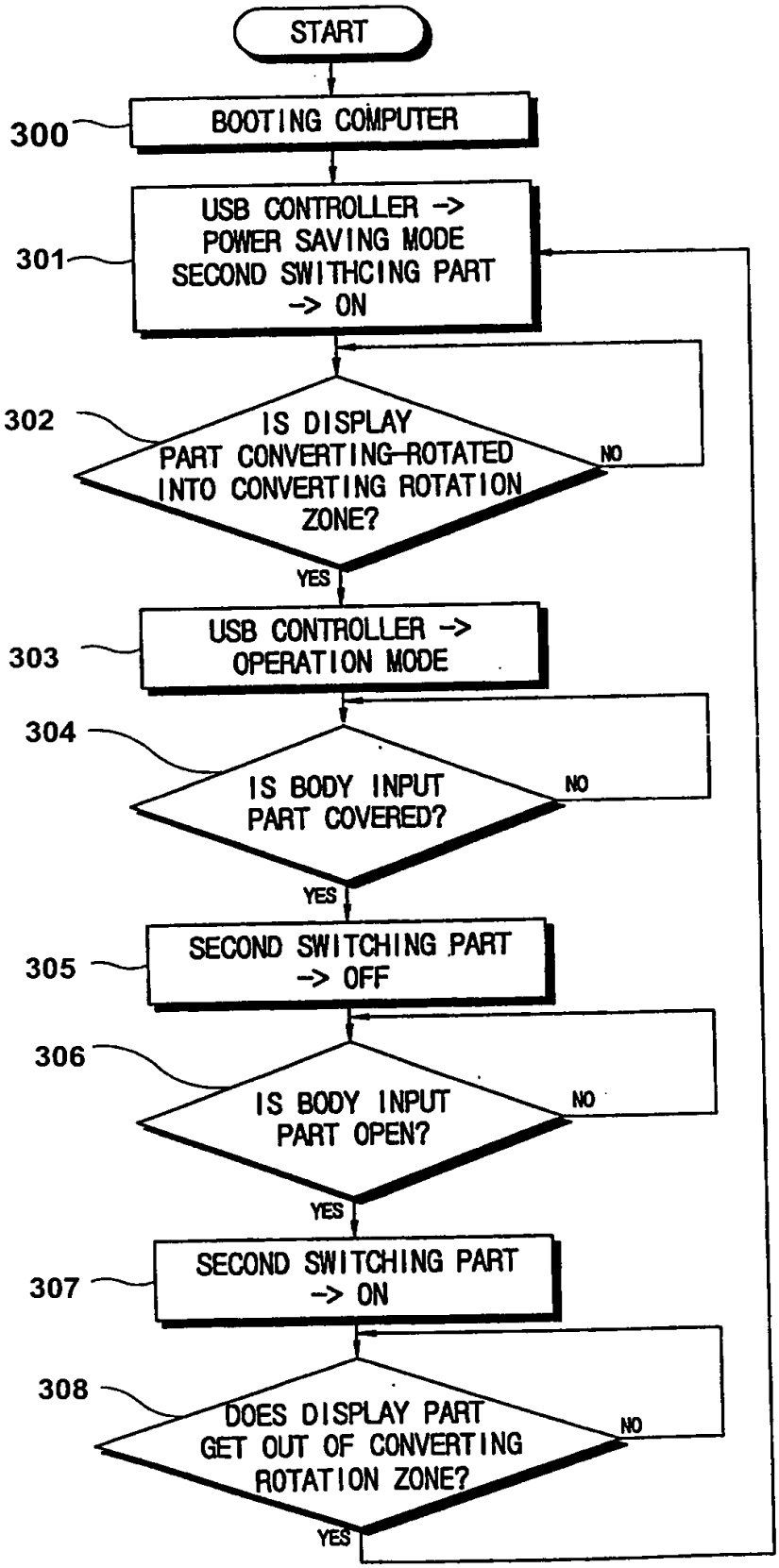

FIG. 8

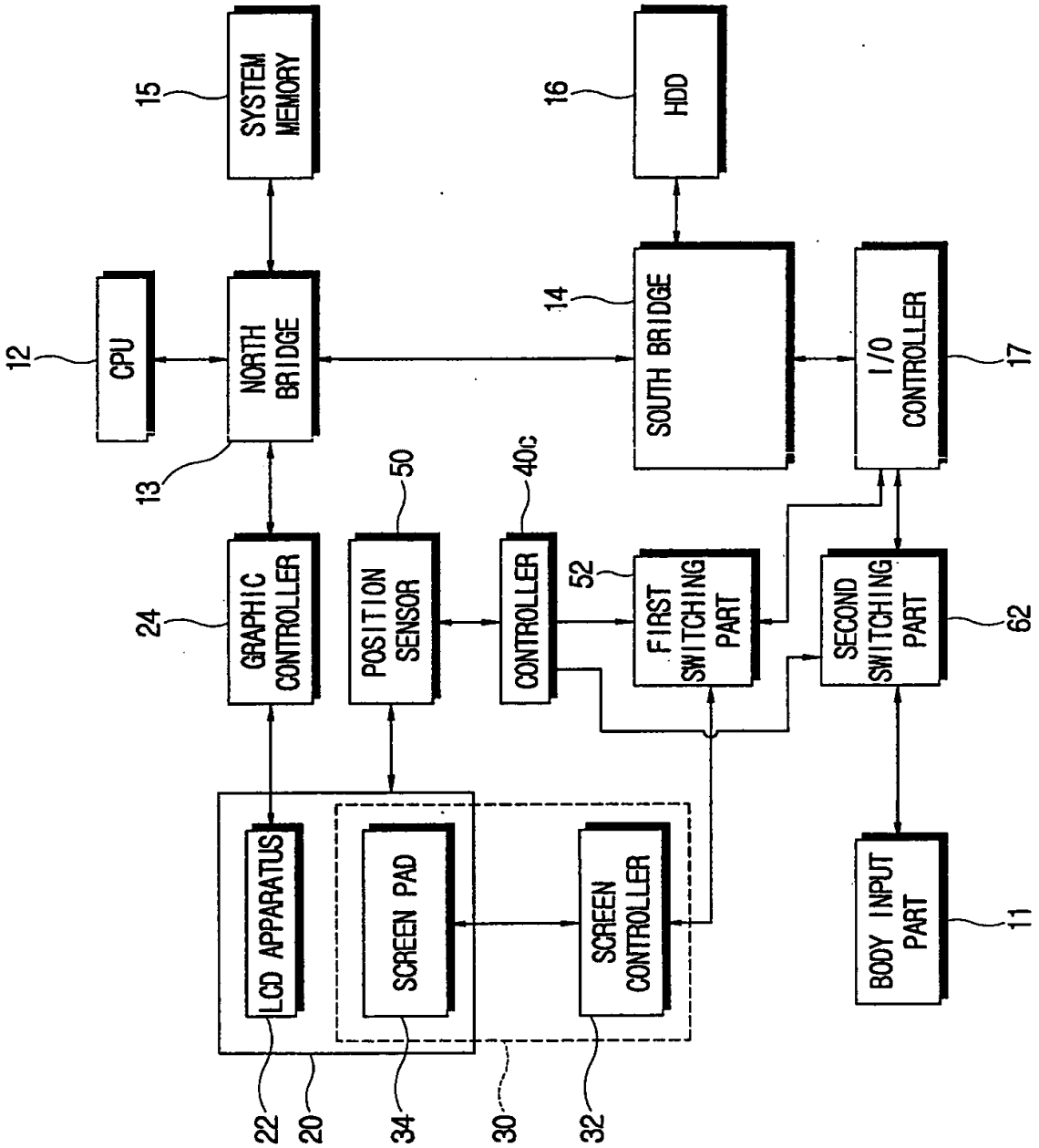
SYSTEM MEMORY
15
HDD
16
CPU
12
NORTH BRIDGE
13
SOUTH BRIDGE
14
I/O CONTROLLER
17
GRAPHIC CONTROLLER
24
POSITION SENSOR
50
CONTROLLER
40c
52
FIRST SWITCHING PART
SECOND SWITCHING PART
62
LCD APPARATUS
22
20
SCREEN PAD
34
30
SCREEN CONTROLLER
32
BODY INPUT PART
11

FIG. 9

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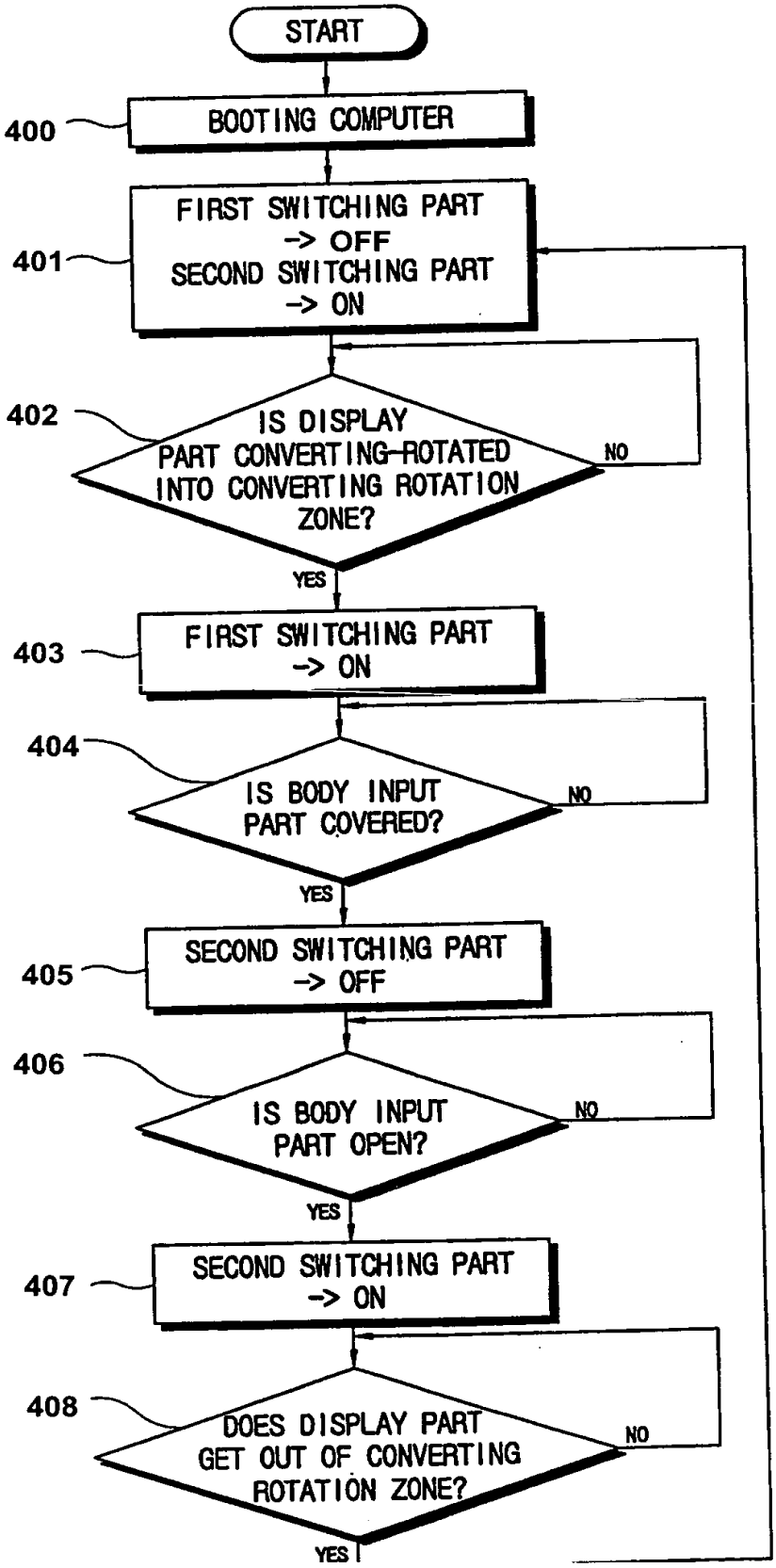
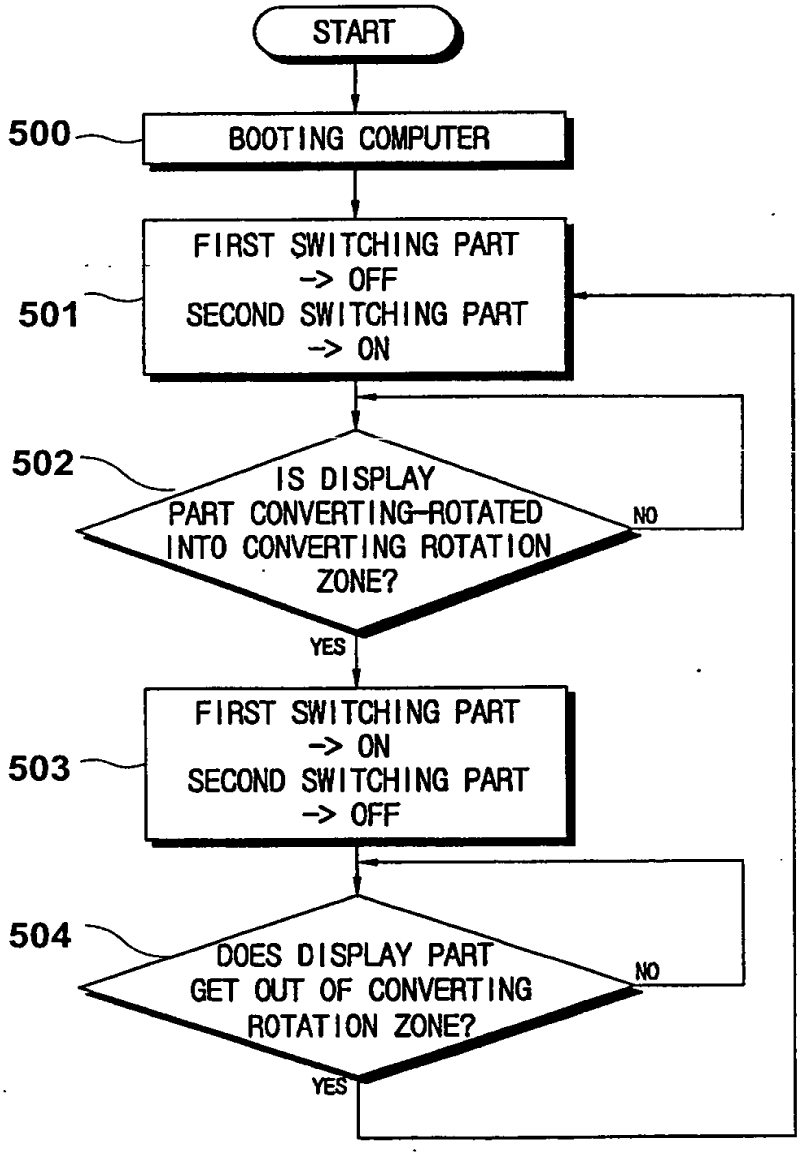


FIG. 10


START
500
BOOTING COMPUTER
501
FIRST SWITCHING PART
-> OFF
SECOND SWITCHING PART
-> ON
502
IS DISPLAY
PART CONVERTING-ROTATED
INTO CONVERTING ROTATION
ZONE?
NO
YES
503
FIRST SWITCHING PART
-> ON
SECOND SWITCHING PART
-> OFF
504
DOES DISPLAY PART
GET OUT OF CONVERTING
ROTATION ZONE?
NO
YES